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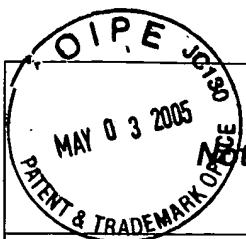
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,096	07/17/2003	Detlev Marpe	SCHO0151	2856
22862	7590	04/13/2005	EXAMINER	
GLENN PATENT GROUP 3475 EDISON WAY, SUITE L MENLO PARK, CA 94025			YOUNG, BRIAN K	
			ART UNIT	PAPER NUMBER
			2819	

DATE MAILED: 04/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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Suppl. Notice of Allowability

Application No.

10/623,096

Examiner

Brian Young

Applicant(s)

MARPE ET AL.

Art Unit

2819

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the IDS filed 8/24/04.
2. ☒ The allowed claim(s) is/are 1-21.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

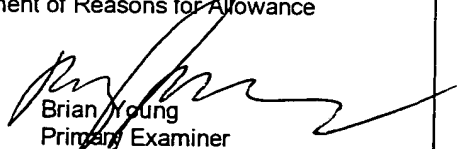
* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 8/24/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Brian Young
Primary Examiner
Art Unit: 2819



PTO/SB/08B (02-03)
Approved for use through 04/30/2003. OMB 0551-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/623,096
		Filing Date	7/17/2003
		First Named Inventor	Marpe, et al.
		Art Unit	2613 2819
		Examiner Name	Unknown Young
Sheet 1	of 6	Attorney Docket Number	SCHO0151

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
B	A	Wiegand, Thomas, et al; "Draft ITU-T; Recommendation and Final Draft International Standard of Joint Video Specification; ITU-T Rec. H.264; ISO/IEC 1449-10 AVC"; 8th Meeting; Geneva, Switzerland, 23-27 May 2003	
	B	Wiegand, Thomas, et al; "Overview of the H.264/AVC Video Coding Standard"; IEEE Transaction on Circuit and Systems for Video Technology, Vol. 13 No. 7, July	
	C	ISO/IEC 13818-2: 1995 (E) Specification (no month given)	
	D	Sullivan, Gary: "Draft Text of Recommendation H.263 Version 2 ("H.263+") for Decision"; Study Group 16 - Contribution COM-999; Study Period 1997-2000 (no month given)	
	E	International Organization For Standardization; Organization Normalization; "Information Technology - Coding of Audio Visual Objects -Part 2: Visual"; N4350 (no date given)	
	F	Gonzales, C.A.; et al; "DCT Coding for Motion Video Storage using Adaptive Arithmetic Coding"; Signal Processing: Image Communication 2 (1960); Vol. 2, No. 2, pp 145-154; August 1990	
	G	Marpe, Detlev, et al; "Adaptive Codes for H.26L"; ITU-T Telecommunications Standardization Sector; Video Coding Experts Group Document; Document VCEG-L13; Twelfth Meeting; Eibsee, Germany, 9-12 January 2001	
	H	Marpe, Detlev, et al; "Further Results for CABAC entropy coding scheme"; ITU-T Telecommunications Standardization Sector; Video Coding Experts Group Document; Document VCEG-M59; Thirteenth Meeting; Austin, Texas, USA 2-4 April 2001	
	I	Marpe, Detlev, et al; "Improved CABAC"; ITU-T Telecommunications Standardization Sector; Video Coding Experts Group Document; Document VCEG-018r1; 15th Meeting; Pattaya, Thailand, 4-6 December 2001	
✓	J	Marpe, Detlev, et al; "New Results on Improved CABAC"; Joint Video Team of ISO/IEC JVT-M59 & ITU-T VCEG, Document JVT-B101; 2nd Meeting; Geneva, CH, Jan. 29-Feb. 1, 2002	

Examiner Signature	<i>B. K. [Signature]</i>	Date Considered	4/7/05
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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Sheet

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OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS

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B	K	Schwarz, Heiko, et al; "Improved CABAC"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-C060; 3rd Meeting: Fairfax, Virginia, USA, 6-10 May 2002.	
	L	Marpe, Detlev, et al; "Fast Arithmetic Coding for CABAC"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-C060; 3rd Meeting: Fairfax, Virginia, USA, 6-10 May 2002.	
	M	Schwarz, Heiko, et al.; "CABAC and Slices"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-D020r1; 4th Meeting: Klagenfurt, Austria, 22-26 July 2002	
	N	Karczewicz, Marta, et al.; "Analysis and Simplification of Intra Prediction"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-D025; 4th Meeting: Klagenfurt, Austria, 22-26 July 2002	
	O	Marpe, Detlev, et al.; "Proposed Cleanup changes for CABAC"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document: JVT-E059; 5th Meeting: Geneva, CH, 9-17 October 2002	
	P	Bossen, Frank; "CABAC cleanup and complexity reduction"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document: JVT-Exxx; 5th Meeting: Geneva, Switzerland; October 2002	
	Q	Marpe, Detlev, et al; "Final CABAC cleanup"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document: JVT-F039; 6th Meeting: Awaji, Island, JP, 5-13 December 2002	
	R	Marpe, Detlev and Hans L. Cycon; "Very Low Bit - Rate Video Coding Using Wavelet - Based Techniques"; IEEE Transactions on Circuits and Systems for Video Technology; Vol. 9, No. 1, Feb 1999.	
	S	Heising, G., et al; "Wavelet-based very low Bitrate coding using image warping"; IEE Proc.-Vis. Image Signal Process, Vol 148, No 2, April 2001	
V	T	Choi, Seung-Jong, and John W. Woods; "Motion-Compensated 3-D Subband Coding of Video"; IEEE Transactions on Image Processing, VOL 8, No. Feb. 1999	

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First Named Inventor	Marpe, et al.
Art Unit	2613 2819
Examiner Name	Unknown Young
Attorney Docket Number	SCHO0151

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OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS

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Bh	U	Said, Amir and William A. Pearlman; "A new fast and efficient image codec based on set partitioning in hierarchical trees"; IEEE Int. Symp on Circuits and Systems, Chigcago, IL May 1993	
	V	Marpe, Detlev and Hans L. Cycon; "Efficient Pre-Coding Techniques for Wavelet-Based Image Compression"; Proc. Int. Picture Coding Symposium, pp. 45-50, 1997 (no month given)	
	W	Rissanen, Jorma and Glen G. Landgon, Jr; "Universal Modeling and Coding"; IEEE Transactions on Information Theory; Vol. It-27, No. 1, January 1981	
	X	Rissanen, Jorma; "Universal Coding, Information, Prediction, and Estimation"; IEEE Transactions on Information Theory; Vol. It-30, No. 4, July 1984	
	Y	Weinberger, Marcelo J., et al; "Applications of universal context modeling to lossless compression of grey-scale images"; IEEE Transactions on Imaging Processing; Vol. 5, No. 4, April 1996	
	Z	Teuhola, Jukka; "A Compression Method of Clustered Bit-Vektors"; Information Processing Letters, Vol 7, Number 6, pp. 308-311, October 1978	
	AA	Gallager, Robert G. and David C. Van Voorhis; "Optimal Source Codes for Geometrically Distributed Integer Alphabets"; IEEE Transactions on Information Technology; pp 228-230, March 1975	
	AB	Mrak, Marta, et al.; "A Context Modeling Algorithm and its Application in Video Compression"; Fraunhofer-Institute HHI, Berlin, Germany (no date given)	
	AC	Pennebaker, W.B., et al; "An overview of the basic principles of the Q-Coder adaptive binary arithmetic coder"; IBM. J. Res. Develop, Vol 32, No. 6, November 1988	
✓	AD	Rissanen, Jorma and K. M. Mohiuddin; "A multiplication-free multialphabet arithmetic code"; IEEE Transactions on Communications; Vol. 37, No. 2, February 1989	

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First Named Inventor	Marpe, et al.
Art Unit	2613 2819
Examiner Name	Unknown Young
Attorney Docket Number	SCH00151

Sheet 4 of 6

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

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B/R	AE	Howard, Paul G. and Jeffrey Scott Viter; "Practical implementations of arithmetic code"; Brown University, Department of Computer Science, Technical Report No. 92-18; Revised version, April 1992, Formerly Technical Report No. CS-91-45.	
	AF	"Sample Data Coding"; Chapter 12, pp. 473-484 (no date given)	
	AG	Moffat, Alistair, et al; "Arithmetic Coding Revisited"; ACM Transactions on Information Systems, Vol 16, No. 3, pages 256-294, July 1998	
	AH	Wiegand, Thomas, et al; "Rate-Constrained Coder Control and Comparison of Video Coding Standards"; IEEE Transactions on Circuits and Systems for Video Technology; Vol. 13, No. 7, July 2003	
	AI	Wiegand, Thomas; "Draft ITU-T Recommendation and Final Draft International Standard of Joint Video Specification (ITU-T Rec. H.264; ISO/IEC; 14496-10 AVC)"; Document: JVT-G050; 7th Meeting: Pattaya, Thailand, 7-14 March 2003	
	AJ	"Video Codec For Audiovisual Services at p64 kbit/s"; International Telecommunication Union; H.261 (03/93)	
	AK	Wenger, Stephen; "H.264/AVC Over IP"; IEEE Transactions on Circuits and Systems for Video Technology; Vol. 13, No. 7, July 2003	
	AL	Stockhammer, Thomas, et al; "H.264/AVC in Wireless Environments"; IEEE Transactions on Circuits and Systems for Video Technology; Vol. 13, No. 7, July 2003	
	AM	Wedi, Thomas and Hans Georg Musmann; "Motion-and Aliasing-Compensated Prediction for Hybrid Video Coding"; IEEE Transactions on Circuits and Systems for Video Technology; Vol. 13, No. 7, July 2003	
✓	AN	Wiegand, Thomas, et al; "Long Term Memory Motion-Compensated Prediction"; IEEE Transactions on Circuits and Systems for Video Technology; Vol. 9, No. 1, Feb. 1999	

Examiner Signature	<i>[Signature]</i>	Date Considered	4/7/05
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		Art Unit	2640 2819
		Examiner Name	Unknown Young
Sheet 5	of 6	Attorney Docket Number	SCHO0151

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
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BK	AO	Flierl, Markus, et al; "A locally design algorithm block-based multi-hypothesis motion-compensated prediction"; Proceedings of the IEEE DCC, pp. 239-248, Snowbird, Utah; March 1988	
	AP	Flierl, Markus and Bernd Girod; "Generalized B Pictures and the Draft H.264/AVC Codec"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003	
	AQ	Wiegand, Thomas, et al; "Rate-Constrained Coder Control and Comparison of Video Coding Standards"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003	
	AR	Karczewicz, Marta and Ragip Kurceren; "The SP – and SI – Frames Design for H.264/AVC"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003	
	AS	Marpe, Detlev et al; "Context-Based Adaptive Binary Arithmetic Coding in the H.264/AVC Video Compression Standard"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003	
	AT	Malvar, Henrique S. et al; "Low-complexity Transformed Quantization in H.264/AVC"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003	
	AU	List, Peter, et al; "Adaptive Deblocking Filter"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003	
	AV	Ribas-Cobera, Jordi et al; "A Generalized Hypothetical Reference Decoder for H.264/AVC"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003	
	AW	Marpe, Detlev et al; "Proposed Editorial Changes and Cleanup of CABAC"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-D019; 4th Meeting: Klagenfurt, Austria, 22-26 July 2002	
	AX	Wiegand, Thomas; "Study of Final Committee Draft of Joint Video Specification (ITU-T Rec. H.264, ISO/IEC 14496-10 AVC0)"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-F100d2; 6th Meeting: Awaji, Island, JP, 5-13 December 2002	

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BS	AY	Wiegand, Thomas: "Study of Final Committee Draft of Joint Video Specification (ITU-T Rec. H.264, ISO/IEC 14496-10 AVC0)"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-F100; 6th Meeting: Awaji, Island, JP, 5-13 December 2002	
✓	AZ	The Concept of a Random Variable, pages 82-84. (no date given)	
✓	BA	Marpe, Detlev, et al; "Fast Arithmetic Coding for CABAC"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-C061; 3rd Meeting: Fairfax, Virginia, USA, 6-10 March 2002.	

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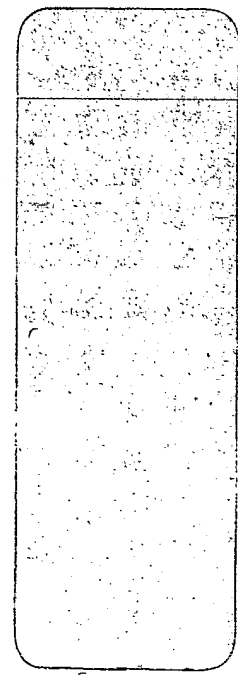
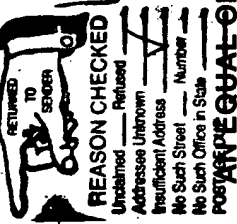
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